



INFORMATION DISCLOSURE STATEMENT

Applicant : David L. Hagen et al.
App. No. : 10/763,057
Filed : January 22, 2004
For : THERMODYNAMIC CYCLES
USING LIQUID DILUENT
Examiner : Unknown
Group Art Unit : 3745

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: United States Patent and Trademark Office, PO Box 1450, Alexandria, VA 22313-1450, on

5-21-04

(Date)
Rabinder N. Narula
Rabinder N. Narula, Reg. No. 53,371

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing 43 references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references, if listed, are enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 5-21-04

By: *Rabinder N. Narula*

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
VAST.003AAPPLICATION NO.
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BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
David L. Hagen et al.FILING DATE
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3754

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	2,678,531	05/18/54	Miller			
	2	2,678,532	05/18/54	Miller			
	3	2,869,324	01/20/59	Footte			
	4	3,238,719	03/08/66	Harslem			
	5	3,651,641	03/28/72	Ginter			
	6	3,657,879	04/25/72	Ewbank et al.			
	7	3,696,795	10/10/72	Smith et al.			
	8	4,128,994	12/12/78	Cheng			
	9	4,248,039	02/03/81	Cheng			
	10	4,483,137	11/20/84	Faulkner et al.			
	11	4,491,093	01/01/85	Hoekstra			
	12	4,509,324	04/09/85	Urbach et al.			
	13	4,522,024	06/11/85	Zaugg			
	14	4,753,068	06/28/88	El-Masri			
	15	4,841,721	06/27/89	Patton et al.			
	16	4,928,478	05/29/90	Maslak			
	17	5,050,375	09/24/91	Dickinson			
	18	5,175,995	01/05/93	Pak et al.			
	19	5,271,215	12/21/93	Guillet			
	20	5,617,716	04/08/97	Schreiber			
	21	5,627,719	05/06/97	Gaston			
	22	5,680,764	10/28/97	Viteri			
	23	5,743,080	04/28/98	Ginter			
	24	5,771,678	06/30/98	Shouman			
	25	6,089,024	07/18/00	Hatanaka			
	26	6,289,666	09/18/01	Ginter			
	27	6,293,086	09/25/01	Reynolds			

EXAMINER

DATE CONSIDERED

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	28	6,370,862	04/16/02	Cheng			
	29	6,418,724	07/16/02	Cheng			
	30	6,564,556	05/20/03	Ginter			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	31	EP 0444013 A1	08/28/91	Europe				
	32	EP 0505263 A1	09/23/92	Europe				
	33	WO 0190548 A1	11/29/01	WO				
	34	IT 1256878	12/27/95	Italy				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	35	Blanco et al., "Water Recovery Systems for Steam Injected Gas Turbines: An Economic Analysis", Proceedings of ECOS 2002, July 3-5, Berlin, Germany.
	36	Bathie, W., "Fundamentals of Gas Turbines", 1996, p 139.
	37	Boyce, M., "Handbook for Cogeneration and Combine Cycle Power Plants", 2002, p 62.
	38	Granovski et al., "Simulation of Temperature Field Redistribution through multistage cooled turbines", Paper 2001-GT-0576, ASME Turbo Expo. 2001 June 4-7, 2001, New Orleans.
	39	Lefebvre, A., "Gas Turbine Combustion", 1998, section 5-7-3 (pp.150-151); p337 (on CO vs. NOx).
	40	Malecki et al., "Application of and Advanced CFD-Based Analysis System to the PW600 Combustor to Optimize Exit Temperature Distribution - Part 1: Description and Validation of the Analysis Tool", 2001.
	41	Moore et al., "GE Power Systems; Gas Turbine Emissions and Control", 2001, p 18.
	42	SPE "Mashproekt", "Aquarius Cycle", http://www.mashproekt.nikolaev.ua/common.htm
	43	Travers, A., "Thermoeconomic Analysis of STIG, RWO and HAT Cycles with Carbon Dioxide (CO2) Emission Penalty", Masters Thesis of Thermochemical Power Group of the University of Genoa Faculty of Engineering, 2000.

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